## WHAT IS CLAIMED IS:

1	1. A pointing device comprising:					
2	a housing for supporting a user's hand;					
3	a pointing sensor, mounted in said housing, for providing a pointing signal;					
4	a contour on said housing for receiving a finger of said user, said contour					
5	having curvature in at least one directions;					
6	a solid-state touch sensor in said contour for detecting movement of said					
7	finger along said.					
1	2. The device of claim 1 wherein said contour comprises a trench shaped					
2	to match a curve traced by a fingertip of said finger during a bending of said finger about a					
3	knuckle of said finger.					
1	3. The device of claim 1 wherein said touch sensor comprises:					
2	at least two electrodes mounted in said contour; and					
3	a capacitive detection circuit, connected to said electrodes, for detecting a					
4	change in capacitance due to a contact of said finger with said electrodes.					
1	4. The device of claim 1 further comprising:					
2	wherein said touch sensor includes a plurality of discrete electrodes mounted					
3	in said contour to detect movement of a finger, wherein at least first and second electrodes					
4	are electrically connected, with a third electrode not connected to said first and second					
5	electrodes, said third electrode being mounted where a finger will contact said third electrode					
6	in between contacting said first and second electrodes; and					
7	a circuit, connected to said electrodes, for detecting contact of said finger with					
8	said electrodes.					
1	5. The circuit of claim 1 wherein said touch sensor includes at least two					
2	electrodes, and further comprising:					
3	a circuit for detecting a contact with said electrode, including					
4	a first, capacitive element;					
5	a second element connected to said capacitive element;					
6	a comparison circuit, having an input node connected to said capacitive and					
7	second elements, for comparing a voltage at said input node to a threshold voltage;					

a clamp-high circuit, connected to said node, for clamping said node high in

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response to a clamp-high control signal;

of a finger, wherein at least first and second electrodes are electrically connected, with a third

electrode not connected to said first and second electrodes, said third electrode being

a pointing sensor, mounted in said housing, for providing a pointing signal;

a plurality of discrete electrodes mounted on said housing to detect movement

7	mounted where a finger will contact said third electrode in between contacting said first and					
8	second electrodes; and					
9	a circuit, connected to said electrodes, for detecting contact of said finger with					
10	said electrodes.					
1	13. A pointing device comprising:					
2	a housing;					
3	a pointing sensor, mounted in said housing, for providing a pointing signal;					
4	at least one electrode mounted on said housing;					
5	a circuit for detecting a contact with said electrode, including					
<u></u>	a first, capacitive element;					
<b>=</b> 7	a second element connected to said first, capacitive element;					
IU U1 8	a comparison circuit, having an input node connected to said first and second					
<u> </u>	elements, for comparing a voltage at said input node to a threshold voltage;					
5 6 7 7 8 M 9 9 T 10	a clamp-high circuit, connected to said node, for clamping said node high in					
=						
11 12	a clamp-low circuit, connected to said input node, for clamping said node low					
<u>□</u> 13	in response to a clamp-low control signal;					
13 14	a controller, connected to an output of said comparison circuit, to said clamp-					
15	high circuit and to said clamp low circuit, for providing said clamp-high and clamp-low					
16	control signals and generating an output signal in response to measuring an amount of time					
17	between transitions of said output of said comparison circuit.					
1	14. The device of claim 13 wherein the second element is a current source					
1	15. A pointing device comprising:					
2	a housing for supporting a user's hand;					
3	a pointing sensor, mounted in said housing, for providing a pointing signal;					
4	a stationary scrolling sensor mounted on said housing, said scrolling sensor					
5	providing a scrolling command in response to a movement of a users finger across said					
6	stationary sensor, and continuing to provide said scrolling command in response to said					
7	finger reaching one end of said stationary scrolling sensor without lifting off.					
1	16. A method of capacitively detecting movement of a finger across a					
2	plurality of electrodes on a pointing device, comprising:					

3	detecting, for each electrode, a first amount of time for a capacitance				
4	connected to said electrode to charge up from a low voltage to a first threshold;				
5	detecting, for each electrode, a second amount of time for said capacitance to				
6	discharge from a high voltage to a second threshold; and				
7	comparing said amounts of time to a calibration value corresponding to the				
8	absence of a finger on said electrodes.				
1	17. The method of claim 16 further comprising:				
2	charging and discharging said capacitance faster than an AC frequency of an				
3	AC power supply;				
4	detecting said first and second amounts of time at least twice during a period				
5	of said AC frequency to produce at least two measurement sets;				
6	averaging said two measurement sets.				
1	18. A pointing device comprising:				
2	a housing for supporting a user's hand;				
3	a pointing sensor, mounted in said housing, for providing a pointing signal;				
4	a speaker, mounted in said pointing device, for emanating sounds				
5	corresponding to a function of said pointing device.				
1	19. The pointing device of claim 18 wherein said device is a mouse.				
1	20. A pointing device for use with a computer system, comprising:				
2	a housing for supporting a user's hand;				
3	a pointing sensor, mounted in said housing, for providing a pointing signal;				
4	and				
5	a notification element, mounted in said pointing device, for providing a				
6	notification to a user responsive to an event external to said computer system.				
1	21. The pointing device of claim 20 wherein said device is a mouse.				
1	22. The pointing device of claim 20 wherein said notification element is				
2	light emitter.				
1	23. The pointing device of claim 22 wherein said light emitter blinks to				
2	provide said notification.				

1		24.	The pointing device of claim 20 wherein said notification element is			
2	speaker.					
1		25.	A pointing device comprising:			
2		a hou	sing for supporting a user's hand;			
3	a pointing sensor, mounted in said housing, for providing a pointing signal;					
4		a soli	id-state touch sensor having at least two discrete electrodes, said			
5	electrodes being separated with a portion of said housing in between said electrodes, said					
6	sensor detecting movement of a finger from one electrode to another.					
1		26.	The pointing device of claim 1 further comprising:			
2		a con	trol circuit, in said pointing device, for detecting a speed of movement			
3	between said	tween said two electrodes, and sending a movement signal to a computer for a number of				
4	movements c	movements corresponding to said speed.				
1		27.	The pointing device of claim 26 wherein said movement signal			
2	comprises a scrolling signal.					
1		28.	A pointing device comprising:			
2		a hou	sing for supporting a user's hand;			
3		a poi	nting sensor, mounted in said housing, for providing a pointing signal;			
4		a soli	id-state sensor for detecting movement of a finger across said sensor			
5	using capacitive sensing with a galvanic contact by said finger.					
1		29.	The pointing device of claim 5 wherein said second element is a			
2	resistive element.					